Blekinge Institute of Technology
Department of Software Engineering

COURSE SYLLABUS

Kontinuerlig kravhantering och produkthantering

Continuous Requirements Engineering and Products Management

7,5 ECTS credit points (7,5 högskolepoäng)

Course code: PA2543
Educational level: Second cycle
Course level: A1N
Field of education: Technology
Subject group: Computer Technology

Subject area: Software Engineering
Version: 4
Applies from: 2016-09-01
Approved: 2016-03-01
Disused: 2019-12-17

1 Course title and credit points
The course is titled Continuous Requirements Engineering and Products Management/Kontinuerlig kravhantering och produkthantering and awards 7,5 ECTS credits. One credit point (högskolepoäng) corresponds to one credit point in the European Credit Transfer System (ECTS).

2 Decision and approval
This course is established by 2016-02-01. The course syllabus was revised by Head of Department of Software Engineering and applies from 2016-09-01. Regnr: BTH 4.1.1-0545-2015.

3 Objectives
The objective of the course is to offer a substantial practice in continuous requirements engineering and product management that prepares the students for problems that arises when managing requirements in a changing and cost sensitive reality. The course discusses challenges related to large-scale requirements engineering and market-driven requirements engineering. Areas such as continuous requirements engineering, requirements engineering process improvement, quality requirements, value and technical product management are discussed and related to industry practice.

4 Content
The course consists of six modules:
1. Introduction to continuous requirements engineering and product management
2. Processes, methods, and models for continuous requirements engineering
3. Processes, methods, and models for continuous product management
4. Value based decision-making
5. Non-functional requirements/quality requirements

6. Release planning

5 Aims and learning outcomes
Knowledge and understanding
On completion of the course the student will be able to:
• Understand and describe the challenges of continuous requirements engineering and product management
• Understand and describe suitable techniques for continuous requirements engineering
Skills and abilities
On completion of the course the student will be able to:
• Apply suitable techniques/methods in a large-scale requirements situation
• Manage a large number of requirements, and a large continuous flow of requirements
• Create a plan for a continuous requirements engineering process for managing requirements in large organizations, from incoming requirements to that the requirements have be released as a part of the product.
Valuation capability and approach
On completion of the course the student will be able to:
• Describe the challenges with, suitable techniques/methods for continuous requirements engineering and product management, and challenges with creating a process for continuous requirements engineering

6 Learning and teaching
The course is divided into several two-weeks sprints. The teaching within a sprint is organized around research articles, book chapters, a set of pre-recorded video lectures, and five assignments. The assignments are constructed in order to help the students to reflect on past experiences, the literature and research articles, and to relate these with each other. During the course, teachers are available via

email and discussion forums.
The course is taught primarily in English, but teaching in Swedish may occur.

7 Assessment and grading
Examination of the course

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Code Module                 Credit      Grade
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1610 Assignment 1           1.5 ECTS    G-U
1620 Assignment 2           1.5 ECTS    G-U
1630 Assignment 3           1.5 ECTS    G-U
1640 Assignment 4           1.5 ECTS    G-U
1650 Assignment 5           1.5 ECTS    G-U
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The course will be graded G Pass, UX Fail, supplementation required, U Fail.

8 Course evaluation
The course coordinator is responsible for systematically gathering feedback from the students in course evaluations and making sure that the results of these feed back into the development of the course.

9 Prerequisites
At least 120 credits in a technical subject and a minimum of 2 years professional experience in software development (shown by, for example, a work certificate from an employer).

10 Field of education and subject area
The course is part of the field of education and is included in the subject area Software Engineering.

11 Restrictions regarding degree
The course cannot form part of a degree with another course, the content of which completely or partly corresponds with the contents of this course.

12 Course literature and other teaching material
Research papers and book chapters will be added until the course starts.

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